STATUS DECISION OF CONTROLLED AND NON-CONTROLLED SUBSTANCE(S)

Substance: Bay 59-3074

Based on the current information available to the Office of Controlled Substances, it appears that the above substance is:

Controlled X
Not Controlled □

under the schedules of the Controlled Drugs and Substances Act (CDSA) for the following reason(s):

• The substance is a synthetic cannabinoid with partial CB₁ and CB₂ cannabinoid receptor agonist activity and therefore included under item 1 of Schedule II to the CDSA.

Prepared by: _______________________________ Date: ________________
Zack Li

Verified by: _______________________________ Date: ________________
Mark Kozlowski

Approved by: _______________________________ Date: ________________
DIRECTOR, OFFICE OF CONTROLLED SUBSTANCES

This status was requested by: “third party information removed as per agreement with applicant”
Drug Status Report

Drug: Bay 59-3074

Drug Name Status: Bay 59-3074 is the common name.

Chemical Name: 3-[2-Cyano-3-( trifluoromethyl)phenoxy]phenyl 4,4,4-trifluoro-1-butanesulfonic acid ester

Chemical structure:

Molecular Formula: $C_{18}H_{13}F_{6}NO_{4}S$  CAS-RN: 406205-74-1

Pharmacological class / Application: Synthetic cannabinoid

International status:

US: Bay 59-3074 is not listed specifically in the Schedules to the US Controlled Substances Act and is not mentioned anywhere on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control.

Canadian Status: Bay 59-3074 is not listed specifically in the CDSA. The substance is a synthetic cannabinoid and has been found to demonstrate partial agonist activity at CB$_1$ and CB$_2$ cannabinoid receptors ($K_i = 48.3$ and 45.5 nM)$^1$ in vivo. Cannabinoid receptor agonists are currently included under the heading “Cannabis, its preparations, derivatives and similar synthetic preparations” of item 1 in Schedule II to the CDSA, whereas cannabinoid receptor antagonists are specifically excluded. Given that Bay 59-3074 demonstrates cannabinoid receptor agonist activity, it must be included under item 1 of Schedule II to the CDSA.

Recommendation: Bay 59-3074 is included in item 1 of Schedule II to the CDSA and is a controlled substance.

Date: June 5th, 2012.